

RECEIVED

CENTRAL FAX CENTER

DEC 06 2004

**FAX TRANSMISSION****DATE:** December 6, 2004**PTO IDENTIFIER:** Application Number 10/710,870-Conf. #4869  
Patent Number**Inventor:** Dennis W. Prather et al.**MESSAGE TO:** USPTO - MS AMENDMENT**FAX NUMBER:** (703) 872-9306**FROM:** CONNOLLY BOVE LODGE & HUTZ LLP

Larry J. Hume

**PHONE:** (202) 331-7111 **Attorney Dkt. #:** 00131-00322-US1**PAGES (Including Cover Sheet):** 30**CONTENTS:** IDS (Citation) by Applicant (3 References) (1 page)  
Information Disclosure Statement (2 pages);  
Three (3) non-patent references (25 pages);  
Certificate of Transmission (1 page)

NO FEE IS DUE.

If your receipt of this transmission is in error, please notify this firm immediately by collect call to sender at (202) 331-7111 and send the original transmission to us by return mail at the address below.

This transmission is intended for the sole use of the individual and entity to whom it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. You are hereby notified that any dissemination, distribution or duplication of this transmission by someone other than the intended addressee or its designated agent is strictly prohibited.

CONNOLLY BOVE LODGE & HUTZ LLP  
1980 M Street, N.W., Suite 800, Washington, DC 20036-3425  
Telephone: (202) 331-7111 Facsimile: (202) 293-6229

PTO/SB/97 (08-04)

Approved for use through 07/31/2006. OMB 0651-0031

U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Application No. (if known): 10/710,870

Attorney Docket No.: 00131-00322-US1

## Certificate of Transmission under 37 CFR 1.8

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office.

on December 6, 2004  
Date



(Signature)

Larry J. Hume

Typed or printed name of person signing Certificate

44,183  
Registration Number, if applicable

(202) 331-7111  
Telephone Number

Note: Each paper must have its own certificate of transmission, or this certificate must identify each submitted paper.

IDS (Citation) by Applicant (3 References) (1 page)  
Information Disclosure Statement (2 pages);  
Three (3) non-patent references (25 pages);  
Certificate of Transmission (1 page)

**NO FEE IS DUE**

RECEIVED  
CENTRAL FAX CENTER

DEC 06 2004

Docket No.: 00131-00322-US1  
(PATENT)**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

---

In re Patent Application of:  
Dennis W. Prather et al.

Confirmation No.: 4869

Application No.: 10/710,870

Filed: August 9, 2004

Art Unit: 2812

For: METHOD FOR CREATING FLIP-CHIP  
CONDUCTIVE-POLYMER BUMPS USING  
PHOTOLITHOGRAPHY AND POLISHING

---

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

A copy of each reference on the PTO/SB/08 is attached.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this

370305

Application No.: 10/710,870

Docket No.: 00131-00322-US1

Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therin is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0185, under Order No. 00131-00322-US1. A duplicate copy of this paper is enclosed.

Dated: December 6, 2004

Respectfully submitted,

By Larry J. Hume  
Larry J. Hume

Registration No.: 44,163  
CONNOLLY BOVE LODGE & HUTZ LLP  
1990 M Street, N.W., Suite 800  
Washington, DC 20036-3425  
(202) 331-7111  
(202) 293-6229 (Fax)  
Attorney for Applicant

PTO/SB/08a/b (08-09)

Approved for use through 07/31/2008. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	10/710,870-Conf. #4869
				Filing Date	August 9, 2004
				First Named Inventor	Dennis W. Prather
				Art Unit	2812
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	00131-00322-US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
					- <sup>6</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	CA	"High-Performance, 1.55 μm AlGaAsSb/AlGaSb pin Photodetectors", S.K. Lohokare et al., Electronics Letters, October 14, 2004, Vol. 40, No. 21.			
	CB	"InGaAs-Based High Performance p-i-n Photodiodes", Ibrahim Kimukin, et al., IEEE Photonics Technology Letters, Vol. 14, no. 3, March 2002.			
	CC	"Recent Developments in Ohmic Contacts for III-V Compound Semiconductors", T.C. Shen et al., J. Vac. Sci. Technol. B 10(5), Sep/Oct 1992, American Vacuum Society, pp. 2113-2132.			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature 37004	Date Considered
-----------------------------	-----------------